

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F1/00 H04L29/06 H04L12/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 57625 A (PRC INC ;HUFF JULIE LYNN (US); JACKSON SHEILA ANN (US); SHELANSKEY) 11 November 1999 (1999-11-11)	1-4, 6-17, 22-25, 27-35, 37-41
Y	abstract page 4, line 7 -page 6, line 2 page 12, line 1 - line 29 page 15, line 23 - line 28 page 17, line 8 - line 29 page 18, line 1 - line 11 page 18, line 29 -page 19, line 13 page 20, line 2 -page 21, line 13 figures 3,4 --- -/--	5,18,19, 26,36



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- * & * document member of the same patent family

Date of the actual completion of the international search

9 September 2003

Date of mailing of the international search report

16/09/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 00 70464 A (L 3 COMM CORP) 23 November 2000 (2000-11-23) abstract page 2, line 11 - line 21 page 4, line 18 -page 11, line 2 page 8, line 1 - line 10 page 9, line 21 - line 29	1-19, 22-41 5,18,19, 26,36
A	US 6 275 942 B1 (LETSINGER RICHARD ET AL) 14 August 2001 (2001-08-14) abstract column 2, line 35 -column 3, line 20 column 4, line 12 -column 13, line 19 column 14, line 46 -column 15, line 22 figure 1	1-41
A	US 6 070 244 A (ARDITO DARIO ET AL) 30 May 2000 (2000-05-30) abstract column 1, line 50 -column 2, line 67 column 3, line 51 -column 15, line 5 figures 2,3A,3B,4A-I	1-41
A	WO 00 54458 A (ROWLAND CRAIG ;PSIONIC SOFTWARE INC (US)) 14 September 2000 (2000-09-14) abstract page 6, line 4 - line 23 page 7, line 6 -page 17, line 11 figures 5-7,9,10	1-41
A	US 2002/052876 A1 (WATERS GLENN) 2 May 2002 (2002-05-02) abstract paragraph '0021! - paragraph '0029!	20,21

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9957625	A	11-11-1999	US 6408391 B1	18-06-2002
			AU 3768899 A	23-11-1999
			CA 2331566 A1	11-11-1999
			GB 2353885 A ,B	07-03-2001
			GB 2381353 A ,B	30-04-2003
			GB 2381911 A ,B	14-05-2003
			WO 9957625 A1	11-11-1999
WO 0070464	A	23-11-2000	AU 4833300 A	05-12-2000
			AU 4833400 A	05-12-2000
			WO 0070463 A1	23-11-2000
			WO 0070464 A1	23-11-2000
US 6275942	B1	14-08-2001	AU 7586998 A	06-12-1999
			WO 9960462 A1	25-11-1999
US 6070244	A	30-05-2000	NONE	
WO 0054458	A	14-09-2000	US 6405318 B1	11-06-2002
			AU 3737400 A	28-09-2000
			WO 0054458 A1	14-09-2000
US 2002052876	A1	02-05-2002	AU 1071300 A	22-05-2000
			CA 2348490 A1	11-05-2000
			EP 1145498 A2	17-10-2001
			WO 0026806 A2	11-05-2000